Effect of the addition of 20% HL by weight of bitumen on G\* sin delta at 70C.

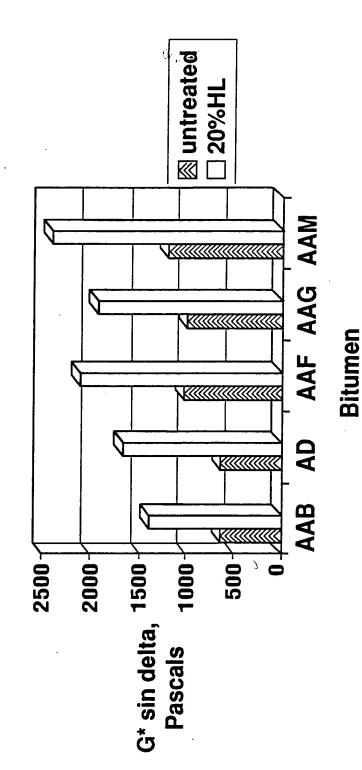


FIG. 1

Change in viscosity of AAD and HL as a function of reaction time and blending time.

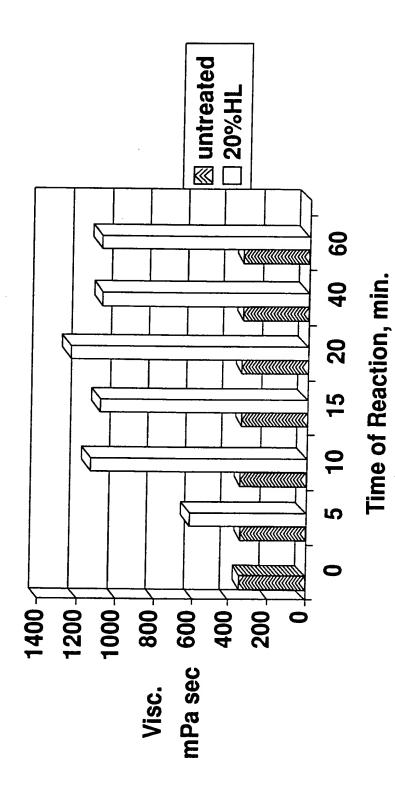
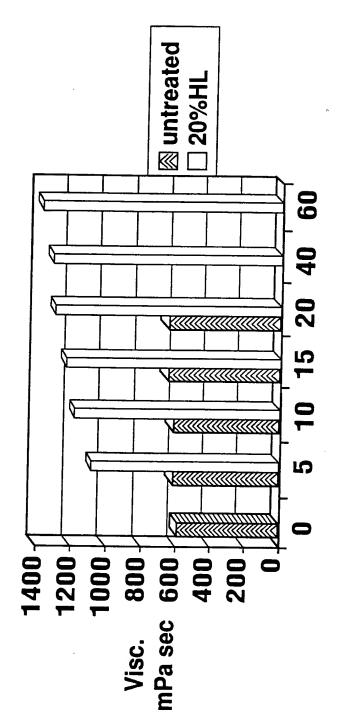


FIG. 2

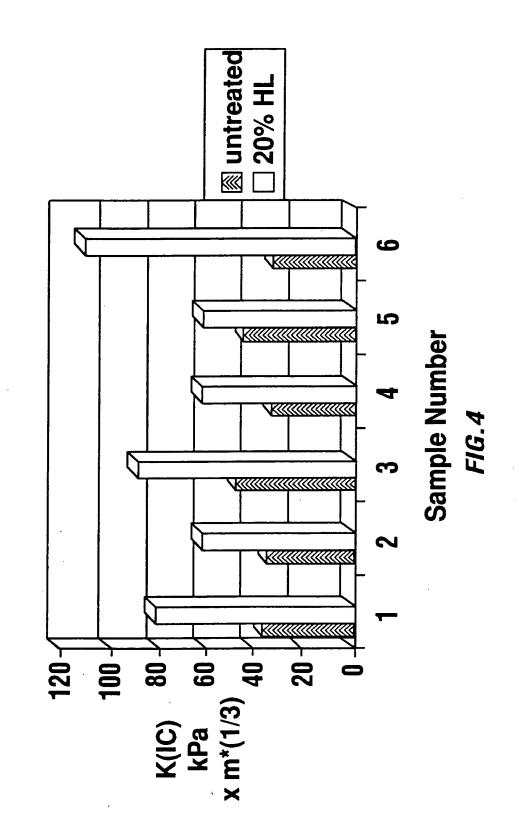
Change in viscosity of AAM and HL as a function of reaction time and blending time



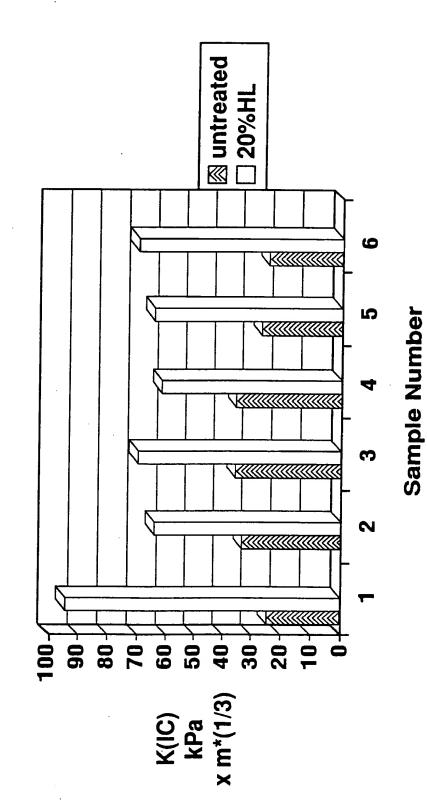
Time of Reaction, min.

FIG. 3

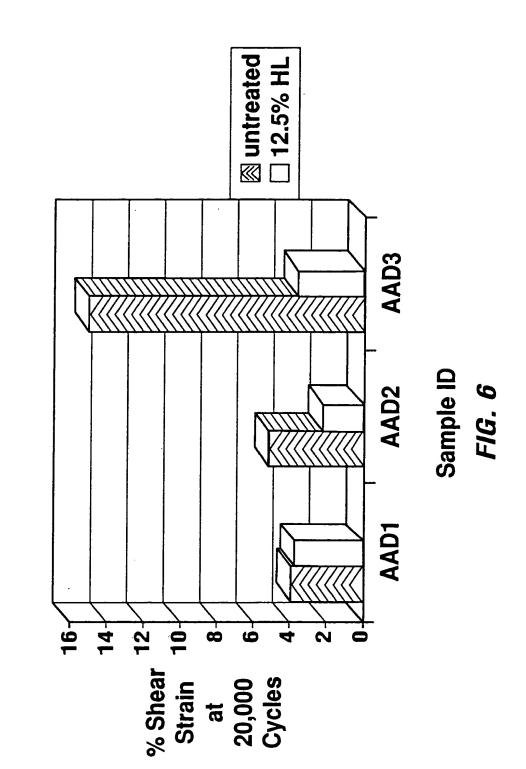
Fracture toughness of AAD wih 20% HL at - 15C.



Effect of 20% HL on fracture toughness of AAM at -15C.



Effect of HL on accumulated shear deformation for asphalt mixes using binders AAD and AAM.



Effect of HL on controlled-strain fatigue life based on regression analysis of 21 mixtures.

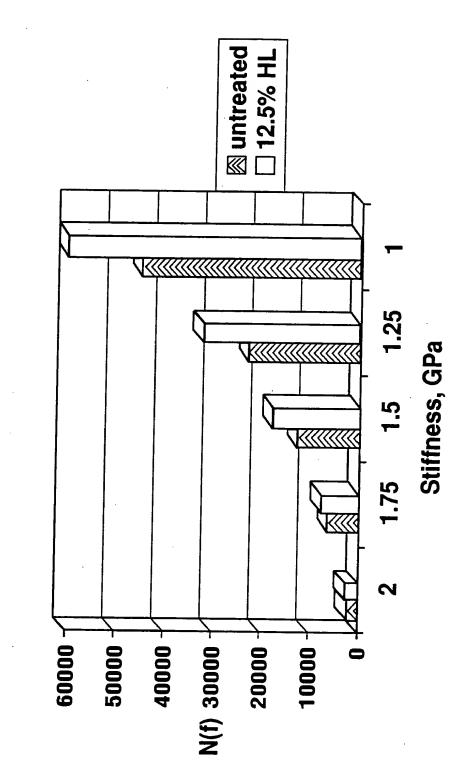
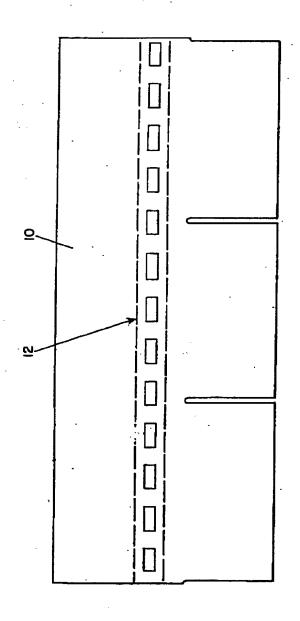
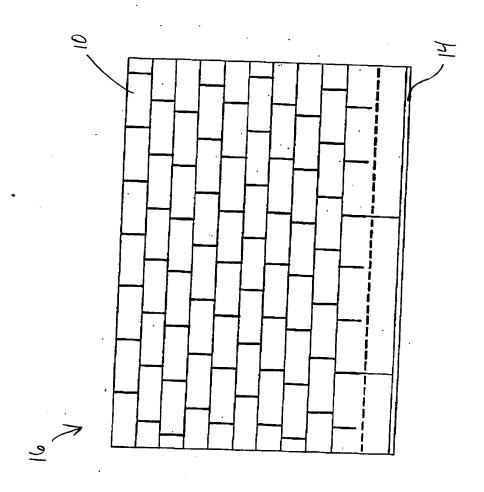


FIG. 7



Tig. 8



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